Ann. Geophys. Discuss.,
https://doi.org/10.5194/angeo-2018-37-RC2, 2018
© Author(s) 2018. This work is distributed under
the Creative Commons Attribution 4.0 License.

Annales Geophysicae Discussions
Open Access
EGU

Interactive comment on "Assessing water vapor tomography in Hong Kong with improved vertical and horizontal constraints" *by* Pengfei Xia et al.

Anonymous Referee #2

Received and published: 17 June 2018

General comments

The paper investigates the improvement in the estimation of atmospheric water vapor by 1) constructing a new Tm model, 2) determining the scale height of water vapor, which used to calculate the vertical constraint and 3) Deriving the smoothing factor in the horizontal constraint. This study is interesting and worth to be published. It is well written and well-organized.

Specific comments

In page 20, section 4.2, lines 386-387. The authors set up a set of criteria to evaluate the tomography profile PPC>0.9 and RMS <2.0 g/m3. Can you please explain why you choose these criteria? Are there any references for choosing these specific numbers?

Printer-friendly version

Discussion paper

CC BY

Interactive comment on Ann. Geophys. Discuss., https://doi.org/10.5194/angeo-2018-37, 2018.

Printer-friendly version

Discussion paper

CC BY